

Jian-Jiun Ding

List of Publications by Year in descending order

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Version: 2024-02-01

165
papers

2,181
citations

430874

18
h-index

345221

36
g-index

166
all docs

166
docs citations

166
times ranked

1524
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectralâ€Temporal Receptive Field-Based Descriptors and Hierarchical Cascade Deep Belief Network for Guitar Playing Technique Classification. IEEE Transactions on Cybernetics, 2022, 52, 3684-3695.	9.5	5
2	DesmokeNet: A Two-Stage Smoke Removal Pipeline Based on Self-Attentive Feature Consensus and Multi-Level Contrastive Regularization. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3346-3359.	8.3	9
3	Single and Double Element Dynamic Programming Algorithm for Melody Matching. , 2022, , .		0
4	Adaptive Superpixel-Based Disparity Estimation Algorithm Using Plane Information and Disparity Refining Mechanism in Stereo Matching. Symmetry, 2022, 14, 1005.	2.2	1
5	Prominent facial feature and hybrid learning method-based advanced face detector robust to head-up, head-down, and arbitrary rotation cases. Signal, Image and Video Processing, 2021, 15, 147-154.	2.7	0
6	Backbone Alignment and Cascade Tiny Object Detecting Techniques for Dolphin Detection and Classification. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 734-743.	0.3	2
7	Multi-Viewpoint Patterns and Occlusions Handling Using Hybrid Features for Vehicle Tracking. , 2021, , .		1
8	Frontalization and adaptive exponential ensemble rule for deep-learning-based facial expression recognition system. Signal Processing: Image Communication, 2021, 96, 116321.	3.2	8
9	High-Order Sychrosqueezing Transforms and Its Application for Highly Accurate Animal Voice Analysis. , 2021, , .		0
10	Face and Head Detection for Back View Cases Using Gradient Features and Learning Architecture. , 2021, , .		0
11	Age Estimation Model Using Multi-Class Architecture and Adaptive Regression Models. , 2021, , .		0
12	Pixelwise Image Sharpness Based on the Weighted Response Ratios of Short and Long Edge Detectors. , 2021, , .		1
13	Distribution-Adaptive Contexts and Probability Model Adjusting for Lossless Image Compression. , 2021, , .		0
14	All Characteristics Preservation: Single Image Dehazing based on Hierarchical Detail Reconstruction Wavelet Decomposition Network. , 2021, , .		0
15	Polling Mechanism for Video Deepfake. , 2021, , .		0
16	Border Compensation Scheme for Image Deblurring. , 2021, , .		0
17	Superpixel and Plane Information Based Disparity Estimation Algorithm in Stereo Matching. , 2021, , .		0
18	ALL Snow Removed: Single Image Desnowing Algorithm Using Hierarchical Dual-tree Complex Wavelet Representation and Contradict Channel Loss. , 2021, , .		52

#	ARTICLE	IF	CITATIONS
19	Baseball Rotation Identification Algorithm Based on Seam Curvature Matching and Pixel Similarity. , 2021, , .		0
20	Advanced Context-Modeling and Frequency Table Adjusting Methods for Motion Vector Encoding. , 2021, , .		0
21	K-Means Clustering Based Adaptive Context Assignment Method for Image AC Term Encoding. , 2021, , .		0
22	Impact of blood pressure control on retinal microvasculature in patients with chronic kidney disease. Scientific Reports, 2020, 10, 14275.	3.3	7
23	Improved Angle Freeman Chain Code Using Improved Adaptive Arithmetic Coding. , 2020, , .		3
24	PMHLD: Patch Map-Based Hybrid Learning DehazeNet for Single Image Haze Removal. IEEE Transactions on Image Processing, 2020, 29, 6773-6788.	9.8	60
25	SVM-Based Root Identification Algorithm Using Ridge Features and Eroded Masks. , 2020, , .		1
26	Graph Saliency Network: Using Graph Convolution Network on Saliency Detection. , 2020, , .		1
27	Deep Learning Based EBCOT Source Symbol Prediction Technique for JPEG2000 Image Compression Architecture. , 2020, , .		0
28	JSTASR: Joint Size and Transparency-Aware Snow Removal Algorithm Based on Modified Partial Convolution and Veiling Effect Removal. Lecture Notes in Computer Science, 2020, , 754-770.	1.3	48
29	Deep Neural Network and Weighted Ridge Regression Based Pixel Prediction Technique. , 2020, , .		0
30	Comprehensive Detail Refinement Network for Vehicle Re-identification. , 2020, , .		0
31	Algorithm of Foveal Avascular Zone Detection with Denoising Mechanism Learning on Optical Coherence Tomography Angiography Images. , 2020, , .		1
32	Advanced Superpixel-Based Features and Machine Learning Based Saliency Detection. , 2020, , .		0
33	Dynamic Motion Vector Searching Algorithm Using Window Adjustment, Global Motion Information, and Direction Priors. , 2020, , .		0
34	Vehicle Distance Estimation Method Based on Monocular Camera. , 2020, , .		1
35	Learning Based Age Estimation Using Joint Loss and Facial Landmarks. , 2020, , .		1
36	Reweightings of the sensory inputs for postural control in patients with cervical spondylotic myelopathy after surgery. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 96.	4.6	25

#	ARTICLE	IF	CITATIONS
37	Learning Based Noise Identification Techniques Using Time-Frequency Analysis and the U-Net. , 2019, , .		1
38	Morphological Residue Encoding and Piecewise Approximation Techniques for Lossless Binary Image Compression. , 2019, , .		1
39	Region Adaptive Mode Selection Algorithms for Image Super-Resolution. , 2019, , .		0
40	3-D Cell Segmentation by Improved V-Net Architecture Using Edge and Boundary Labels. , 2019, , .		4
41	Automatic Handwriting Verification and Suspect Identification for Chinese Characters Using Space and Frequency Domain Features. , 2019, , .		0
42	Learning Based SLIC Superpixel Generation and Image Segmentation. , 2019, , .		1
43	Adaptive Prediction, Context Modeling, and Entropy Coding Methods for CALIC Lossless Image Compression. , 2019, , .		4
44	Super-Resolution via Wavelet Transform and Advanced Learning Techniques. , 2019, , .		2
45	Automatic Chinese Handwriting Verification Algorithm Using Deep Neural Networks. , 2019, , .		2
46	PMS-Net: Robust Haze Removal Based on Patch Map for Single Images. , 2019, , .		63
47	Improved Efficiency on Adaptive Arithmetic Coding for Data Compression Using Range-Adjusting Scheme, Increasingly Adjusting Step, and Mutual-Learning Scheme. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 3412-3423.	8.3	16
48	Dolphin Recognition with Adaptive Hybrid Saliency Detection for Deep Learning Based on DenseNet Recognition. , 2018, , .		2
49	Advanced Orientation Robust Face Detection Algorithm Using Prominent Features and Hybrid Learning Techniques. , 2018, , .		1
50	Frontalization with Adaptive Exponentially-Weighted Average Ensemble Rule for Deep Learning Based Facial Expression Recognition. , 2018, , .		3
51	Highly Robust Dolphin Detection Algorithm in Occluded Cases. , 2018, , .		1
52	Efficient EEG Signal Compression Algorithm with Long Length Improved Adaptive Arithmetic Coding and Advanced Division and Encoding Techniques. , 2018, , .		3
53	Advanced Ear Detection Algorithm Using Faster R-CNN, Refocus Filters, and the Gradient Map. , 2018, , .		1
54	Generalized Jacket Transform with Arbitrary Integer Entries. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Accurate Road Detection from Satellite Images Using Modified U-net. , 2018, , .		15
56	Efficient Recurrent Detection for Visual Tracking. , 2018, , .		0
57	Automatic Writer Verification Algorithm for Chinese Characters Using Semi-Global Features and Adaptive Classifier. , 2018, , .		3
58	Novel Adaptive Road Path Searches with Small Motion Prejudgments for Fast Block Motion Estimation. , 2018, , .		2
59	Cell Segmentation Algorithm Using Double Thresholding with Morphology-Based Techniques. , 2018, , .		3
60	Robust in-plane and out-of-plane face detection algorithm using frontal face detector and symmetry extension. Image and Vision Computing, 2018, 78, 26-41.	4.5	6
61	High quality and efficient light field image rendering based on white image compensation. , 2017, , .		0
62	Action recognition using three dimension convolution and long short term memory. , 2017, , .		1
63	Dynamic tracking attention model for action recognition. , 2017, , .		4
64	Exemplar-embed complex matrix factorization for facial expression recognition. , 2017, , .		4
65	Collagen image compression using the JPEG-based predictive lossless coding scheme. , 2017, , .		0
66	Improved convolutional neural network based scene classification using long short-term memory and label relations. , 2017, , .		2
67	Adaptive 3D cell segmentation and tracing algorithm using convex separation and histogram information for vivo images. , 2017, , .		0
68	Advanced one-bit transform algorithm with edge enhancement and representative feature extraction for low-complexity and accurate motion estimation. , 2017, , .		1
69	Disparity estimation using adaptive superpixel assignment and gradient weight, binary cost, and dilation based local matching algorithm. , 2017, , .		0
70	So-BRIEF: Fast recognition of rectangular objects. , 2017, , .		0
71	Generalized atom and dictionary design and compressive sensing for vocal signal expansion. , 2017, , .		0
72	Prediction techniques for wavelet based 1-D signal compression. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
73	Flipping and blending based highly robust in-plane and out-of-plane color face detection. , 2017, , .		1
74	An improved approach for face detection using superpixels, moment-based matching, and isosceles triangle matching. , 2016, , .		0
75	Shape-adaptive image compression using lossy shape coding, SA-prediction, and SA-deblocking. , 2016, , .		2
76	Advanced query by humming system using diffused hidden Markov model and tempo based dynamic programming. , 2016, , .		4
77	Adaptive growing and merging algorithm for image segmentation. , 2016, , .		3
78	Improved frequency table adjusting algorithms for context-based adaptive lossless image coding. , 2016, , .		2
79	Occlusion pattern-based dictionary for robust face recognition. , 2016, , .		2
80	Morphology-based disparity estimation and rendering algorithm for light field images. , 2016, , .		1
81	A new adaptive coefficient scanning based on local and global prediction. Signal, Image and Video Processing, 2016, 10, 189-197.	2.7	0
82	Multilayer image disparity estimation and blending for light field cameras. , 2015, , .		1
83	Lossless contour compression using morphology, chain coding, and distribution transform. , 2015, , .		1
84	Advanced contour compression algorithm using weighted curvature, Lagrange curve approximation, and improvement adaptive arithmetic coding. , 2015, , .		2
85	Haze detection and haze degree estimation using dark channels and contrast histograms. , 2015, , .		3
86	Horizontal adaptive disparity estimation scheme for stereoscopic images. , 2015, , .		0
87	An efficient sky detection algorithm based on hybrid probability model. , 2015, , .		2
88	Efficient image deblurring via blockwise non-blind deconvolution algorithm. , 2015, , .		2
89	Real-time interactive image segmentation using improved superpixels. , 2015, , .		7
90	Nonlocal means image denoising based on bidirectional principal component analysis. , 2015, , .		1

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91	Facial expression recognition based on improved local binary pattern and class-regularized locality preserving projection. Signal Processing, 2015, 117, 1-10.	3.7	86
92	A Telesurveillance System With Automatic Electrocardiogram Interpretation Based on Support Vector Machine and Rule-Based Processing. JMIR Medical Informatics, 2015, 3, e21.	2.6	14
93	A novel compression algorithm for IMFs of Hilbert-Huang transform. , 2014, , .		0
94	Fast morphology algorithm with parallel processing structures. , 2014, , .		1
95	End-point preserved stroke extraction. , 2014, , .		1
96	A real-time detection algorithm for freezing of gait in Parkinson's disease. , 2014, , .		5
97	Banknote reconstruction from fragments using quadratic programming and SIFT points. , 2014, , .		3
98	A region adaptive encoding algorithm for simple image compression. , 2014, , .		1
99	Image retrieval based on quadtree classified vector quantization. Multimedia Tools and Applications, 2014, 72, 1961-1984.	3.9	6
100	Conjugate Symmetric Discrete Orthogonal Transform. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 284-288.	3.0	7
101	Compression for the feature points with binary descriptors. , 2014, , .		1
102	Image deblurring using a pyramid-based Richardson-Lucy algorithm. , 2014, , .		5
103	Two-Dimensional Orthogonal DCT Expansion in Trapezoid and Triangular Blocks and Modified JPEG Image Compression. IEEE Transactions on Image Processing, 2013, 22, 3664-3675.	9.8	11
104	Adaptive Golomb Code for Joint Geometrically Distributed Data and Its Application in Image Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 661-670.	8.3	25
105	ECG baseline extraction by gradient varying weighting functions. , 2013, , .		4
106	Structural similarity-based nonlocal edge-directed image interpolation. , 2013, , .		5
107	Efficient DC term encoding scheme based on double prediction algorithms and Pareto probability models. , 2013, , .		1
108	Generalized polynomial wigner spectrogram for high-resolution time-frequency analysis. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
109	Noise removing for time-variant vocal signal by generalized modulation. , 2013, , .		0
110	Improved structural similarity measurement for vocal signals. , 2013, , .		1
111	Facial age estimation based on label-sensitive learning and age-oriented regression. Pattern Recognition, 2013, 46, 628-641.	8.1	126
112	Local prediction based adaptive scanning for JPEG and H.264/AVC intra coding. , 2013, , .		2
113	Facial expression recognition using expression-specific local binary patterns and layer denoising mechanism. , 2013, , .		0
114	Less buffer sized efficient compression algorithm based on column DCTs, Row DWTs, and predictive coding. , 2013, , .		0
115	Nonlocal context modeling and adaptive prediction for lossless image coding. , 2013, , .		2
116	Integer multichannel transform. , 2013, , .		0
117	Bearing Fault Diagnosis Based on Multiscale Permutation Entropy and Support Vector Machine. Entropy, 2012, 14, 1343-1356.	2.2	231
118	Improved implementation algorithms of the two-dimensional nonseparable linear canonical transform. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1615.	1.5	19
119	Facial age estimation based on label-sensitive learning and age-specific local regression. , 2012, , .		9
120	Real time accelerometer-based gait recognition using adaptive windowed wavelet transforms. , 2012, , .		24
121	Analysis of Attenuation Measurements in Ocean Sediments Using Normal Incidence Chirp Sonar. IEEE Journal of Oceanic Engineering, 2012, 37, 533-543.	3.8	6
122	Saliency detection improved by Principle Component Analysis and boundary scoring approach. , 2012, , .		0
123	Context-based adaptive zigzag scanning for image coding. , 2011, , .		4
124	Muscle injury determination by image segmentation. , 2011, , .		2
125	Closed-Form Orthogonal Number Theoretic Transform Eigenvectors and the Fast Fractional NTT. IEEE Transactions on Signal Processing, 2011, 59, 2124-2135.	5.3	17
126	Jacket Haar transform. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
127	Coarse-to-fine temporal optimization for video retargeting based on seam carving. , 2011, , .		4
128	Efficient discrete fractional Hirschman optimal transform and its application. , 2011, , .		2
129	Asymmetric fourier descriptor of non-closed segments. , 2010, , .		3
130	Fractional Fourier Transform, Wigner Distribution, and Filter Design for Stationary and Nonstationary Random Processes. IEEE Transactions on Signal Processing, 2010, 58, 4079-4092.	5.3	67
131	Improved reversible integer-to-integer color transforms. , 2009, , .		18
132	Natural images phase encoding and encryption with the same spectrum amplitude. , 2009, , .		0
133	DFT-Commuting Matrix With Arbitrary or Infinite Order Second Derivative Approximation. IEEE Transactions on Signal Processing, 2009, 57, 390-394.	5.3	14
134	Closed-Form Orthogonal DFT Eigenvectors Generated by Complete Generalized Legendre Sequence. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3469-3479.	5.4	17
135	Short response Hilbert transform for edge detection. , 2008, , .		3
136	Coefficient-truncated higher-order commuting matrices of the discrete fourier transform. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	1
137	Eigenvalues and Singular Value Decompositions of Reduced Biquaternion Matrices. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 2673-2685.	5.4	33
138	Generalized Commuting Matrices and Their Eigenvectors for DFTs, Offset DFTs, and Other Periodic Operations. IEEE Transactions on Signal Processing, 2008, 56, 3891-3904.	5.3	28
139	Improved Harris' Algorithm for Corner and Edge Detections. , 2007, , .		10
140	Eigenfunctions of Fourier and Fractional Fourier Transforms With Complex Offsets and Parameters. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1599-1611.	0.1	42
141	Relations Between Gabor Transforms and Fractional Fourier Transforms and Their Applications for Signal Processing. IEEE Transactions on Signal Processing, 2007, 55, 4839-4850.	5.3	103
142	Color Images Enhancement using Weighted Histogram Separation. , 2006, , .		13
143	DCT-Based Image Protection using Dual-Domain Bi-Watermarking Algorithm. , 2006, , .		3
144	New corner detection algorithm by tangent and vertical axes and case table. , 2005, , .		6

#	ARTICLE	IF	CITATIONS
145	Reversible integer color transform with bit-constraint. , 2005, , .		3
146	Commutative Reduced Biquaternions and Their Fourier Transform for Signal and Image Processing Applications. IEEE Transactions on Signal Processing, 2004, 52, 2012-2031.	5.3	78
147	Generalized Eigenvectors and Fractionalization of Offset DFTs and DCTs. IEEE Transactions on Signal Processing, 2004, 52, 2032-2046.	5.3	18
148	Fractional cosine, sine, and Hartley transforms. IEEE Transactions on Signal Processing, 2002, 50, 1661-1680.	5.3	62
149	Eigenfunctions of linear canonical transform. IEEE Transactions on Signal Processing, 2002, 50, 11-26.	5.3	142
150	Relations between fractional operations and time-frequency distributions, and their applications. IEEE Transactions on Signal Processing, 2001, 49, 1638-1655.	5.3	236
151	Efficient implementation of quaternion Fourier transform, convolution, and correlation by 2-D complex FFT. IEEE Transactions on Signal Processing, 2001, 49, 2783-2797.	5.3	192
152	2-D affine generalized fractional Fourier transform. , 1999, , .		0
153	Saving the bandwidth in the fractional domain by generalized Hilbert transform pair relations. , 0, , .		0
154	Eigenfunctions of the canonical transform and the self-imaging problems in optical system. , 0, , .		0
155	Integer discrete Fourier transform and its extension to integer trigonometric transforms. , 0, , .		3
156	Fractional, canonical, and simplified fractional cosine transforms. , 0, , .		4
157	Color pattern recognition by quaternion correlation. , 0, , .		9
158	Quaternion matrix singular value decomposition and its applications for color image processing. , 0, , .		16
159	The generalized radial Hilbert transform and its applications to 2D edge detection (any direction or) Tj ETQq1 1 0.784314 rgBT /Overlo		
160	Simplified structures for two-dimensional adaptive notch filters. , 0, , .		1
161	2D quaternion Fourier spectral analysis and its applications. , 0, , .		6
162	Discrete Fractional Fourier Transform Based on New Nearly Tridiagonal Commuting Matrices. , 0, , .		1

#	ARTICLE	IF	CITATIONS
163	Reducing Sampling Error by Prolate Spheroidal Wave Functions and Fractional Fourier Transform. , 0, , .		1
164	Fractional Fourier Transforms and Wigner Distribution Functions for Stationary and Non-Stationary Random Process. , 0, , .		2
165	Improved Reversible Integer Transform. , 0, , .		3